

Your Energy Saving Expert



PowerFusion Series

X250KT DG Hybrid Energy Storage System

250kVA / 153.6kWh

Makes Diesel Generator Set Energy Saving and Efficient.



Saving Fuel Consumption over
30%

Meet the needs of high-load or high-impact loads in industrial applications, such as construction, manufacturing, and mining. Widely used for temporary power consumption and emergency power supply.

All-In-One

Integrated Battery + SEMS + SPCS

8 Sets

Parallel
Up to 2MW / 1228.8kWh

250 kW

High Output

Rapid Deployment

Support lifting and forklift transportation



AC-Coupled Power System

Diesel GEN/PV System/Grid



Remote Monitoring & Management

via App and Web



Plug & Play

No installation required



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Technical Specifications

Model

X250KT-E/A

AC Output Data (On-grid Mode)

Rated Power	150 kW
Max. Overload Capacity	250 kVA @210s, R Load
Rated Voltage	400 V (±10%)
Rated Current	216 A
Grid Frequency	50 Hz
AC Connection	3 W + N + PE
THDI	≤ 3%
Power Factor	-1 ~ +1

AC Output Data (Off-grid Mode)

Rated Power	150 kW
Max. Overload Capacity	250 kVA @210s, R Load
Rated Voltage / Frequency	400 V / 50 Hz
THDV (Linear Load)	≤3%

Battery Data

Battery Chemistry	LiFePO ₄
Nominal Energy	153.6 kWh
Working Voltage Range	600 V ~ 876 V
Nominal Charging Current	100 A
Nominal Discharging Current	200 A
Max. Discharging Current	300 A
DOD	90%

Compatible Diesel Generator

Rated Power	≤400 kVA
Rated Voltage	400 V
Rated Frequency	50 Hz

General

Parallel Capable	Yes (Up to 8)
EMS	SEMS3000 12 inch LCD Touch Panel
Ingress Rating	IP54
Topology	Transformer
Working Temperature	-4 ~ 122°F (-20 ~ 50°C)
Storage Temperature	-40 ~ 149°F (-40 ~ 65°C)
Relative Humidity	5 ~ 95% (No condensing)
System Noise	<65dB
Cooling	Intelligent temperature control (Battery room) Air cooling (Inverter room)
Fire Suppression System	Included
Altitude	2,000 m
Dimensions, LxWxH	90.6 x 68.9 x 94.5 inch (2,300 x 1,750 x 2,400 mm)
Weight	11,023.2 lbs (5,000 kg)

Note: All data are based on ROYPOW standard test procedures, actual performance may vary according to local conditions.